



## SmartReader Plus 4

### Four-Channel Pressure, Temperature and Relative Humidity Data Logger

The SmartReader Plus 4 data logger provides easy monitoring and troubleshooting of pneumatic control systems. The unit is completely self-contained with a 1/4" quick-release pressure fitting to allow a fast and trouble-free connection. As an added bonus, the SmartReader Plus 4 also monitors temperature and relative humidity.

#### APPLICATIONS

Performance tracking of pneumatically controlled valves; verifying thermostat and humidistats; monitoring sensitive shipments, etc.

#### GENERAL SPECIFICATIONS

- Size: 107mm x 74mm x 22mm (4.2" x 2.9" x 0.9")
- Weight: 110 g (3.75 oz)
- Case Material: Noryl® Plastic
- Battery: 3.6 volt Lithium
- Resolution: 12-bit (1 part in 4096)
- Mounting: Magnetic backing or locking eyelet
- Clock Accuracy: ± 2 seconds per day
- Sampling Methods: Continuous (First-in First-out)\*, Stop When Full (Fill-then-stop)  
*\*Not available with sample rates faster than eight seconds*
- Operating Limits: -40°C to 70°C (-40°F to 158°F) and 0 to 95% RH (non-condensing)
- PC Requirements: Windows PC with at least one free USB or serial port (depending on interface)
- Software Requirements: TrendReader® 2 (Compatible with Windows XP SP3, Windows Vista SP2 & Windows 7 (32 bit & 64 bit))
- Memory Size: 32 KB (capable of storing up to 21,500 readings)  
*(2 memory sizes available)* 128 KB (capable of storing up to 87,000 readings)
- Sampling Rates: User selectable rates from 25 per second to once every eight hours (BP-101 battery pack or PS-201 power supply required for sampling rates faster than eight seconds)
- Number of Channels: Four (one internal sensor for ambient temperature, one for pressure, and two for optional remote relative humidity and temperature probe [model EH-020A])



#### SENSOR SPECIFICATIONS

##### Internal Temperature Sensor

- Type: NTC Thermistor - 10,000 @ 25°C (77°F)
- Range: -40°C to 70°C (-40°F to 158°F)
- Accuracy: ±0.2°C over the range of 0°C to 70°C (± 0.3°F over the range of 32°F to 158°F)
- Resolution: 0.03°C (0.05°F) @ 25°C; better than 0.07°C (0.12°F) between -25°C and 70°C (-13°F and 158°F); better than 0.13°C (0.23°F) between -40°C and -25°C (-40°F and -13°F)

Pressure Sensor Ranges	Resolution
0 to 10 inWC (2.5 kPa)	0.006 inWC (1.5 Pa)
0 to 5 PSI (30 kPa) Gauge	0.003 PSI (0.02 kPa)
0 to 30 PSI (200 kPa) Absolute	0.015 PSI (0.1 kPa)
0 to 30 PSI (200 kPa) Gauge	0.015 PSI (0.1 kPa)

Pressure Sensor Ranges	Resolution
0 to 100 PSI (700 kPa) Absolute	0.05 psi (0.34 kPa)
0 to 100 PSI (700 kPa) Gauge	0.05 psi (0.34 kPa)
0 to 150 PSI (1000 kPa) Gauge	0.05 psi (0.34 kPa)

**Calibrated Accuracy** ±0.5% of full scale @ 25°C (77°F)

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